Eastern Region Energy-Water Summary Overview for Group E

Problems	Needs	Solutions
ENERGY SUPPLY		
More energy required as water quality degrades	Tools for managing water demand for energy generations	Develop mark-order promising technologies to increase supplies or to manage demand, including international sources
Liability and risk are increasing cost of water and energy production	Market approach	Explore the benefit of applying market mechanisms to address conflicts between water uses for energy production and other uses
Insufficient water available to meet energy needs	Understand competing uses of water for energy	Identify and promote projects that encourage symbiotic water and energy production and conservation
Legal constraints	Multi-jurisdiction aid to address competing demands	Create a database that catalogs all jurisdiction authorities, permits, regulations, and permissions granted that pertain to water/energy production-generation
WATER SUPPLY		
No clear value of water as important (regional and national resources)	Public awareness of water issues on regional and national scale	Establish outreach to public regarding water issues. Create a consumer-oriented water/energy calculator available on web or interactive element. Encourage creation of start-up programs to develop entrepreneurial activities SMBIR
		Complete information gathering for database to perform life-cycle analysis.
		Develop a comprehensive model for life cycle costs and benchmarks that include historical data and future forecasts
		Validate model with regional benchmark data
No mechanism to allocate scarce water resources	Mechanism to allocate water during droughts	Establish model as a priority for technology management
Amount of energy used to treat and deliver water resources	Pilots projects	Develop pilot projects to test technologies that consider cost sharing, water-energy efficiency, desalination, renewables, and low water use

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